

Qingsong Ai

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

845

citations

14

h-index

27

g-index

83

ext. papers

1,178

ext. citations

3.3

avg, IF

4.44

L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 63 | Recent development of mechanisms and control strategies for robot-assisted lower limb rehabilitation. <i>Mechatronics</i> , 2015 , 31, 132-145 | 3 | 238 |
| 62 | Robust Iterative Feedback Tuning Control of a Compliant Rehabilitation Robot for Repetitive Ankle Training. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 173-184 | 5.5 | 69 |
| 61 | Intelligent monitoring and diagnosis for modern mechanical equipment based on the integration of embedded technology and FBGS technology. <i>Measurement: Journal of the International Measurement Confederation</i> , 2011 , 44, 1499-1511 | 4.6 | 39 |
| 60 | Feature extraction of four-class motor imagery EEG signals based on functional brain network. <i>Journal of Neural Engineering</i> , 2019 , 16, 026032 | 5 | 38 |
| 59 | Feature Selection for Motor Imagery EEG Classification Based on Firefly Algorithm and Learning Automata. <i>Sensors</i> , 2017 , 17, | 3.8 | 37 |
| 58 | A new digital watermarking scheme for 3D triangular mesh models. <i>Signal Processing</i> , 2009 , 89, 2159-2170 | 4.4 | 32 |
| 57 | . <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 9548-9559 | 8.9 | 28 |
| 56 | An analytical approach to customer requirement information processing. <i>Enterprise Information Systems</i> , 2013 , 7, 543-557 | 3.5 | 25 |
| 55 | Active interaction control applied to a lower limb rehabilitation robot by using EMG recognition and impedance model. <i>Industrial Robot</i> , 2014 , 41, 465-479 | 1.4 | 23 |
| 54 | Research on Lower Limb Motion Recognition Based on Fusion of sEMG and Accelerometer Signals. <i>Symmetry</i> , 2017 , 9, 147 | 2.7 | 21 |
| 53 | Hierarchical Compliance Control of a Soft Ankle Rehabilitation Robot Actuated by Pneumatic Muscles. <i>Frontiers in Neurobotics</i> , 2017 , 11, 64 | 3.4 | 21 |
| 52 | Disturbance-Estimated Adaptive Backstepping Sliding Mode Control of a Pneumatic Muscles-Driven Ankle Rehabilitation Robot. <i>Sensors</i> , 2017 , 18, | 3.8 | 16 |
| 51 | Fuzzy Sliding Mode Control of a Multi-DOF Parallel Robot in Rehabilitation Environment. <i>International Journal of Humanoid Robotics</i> , 2014 , 11, 1450004 | 1.2 | 16 |
| 50 | A Subject-Specific EMG-Driven Musculoskeletal Model for Applications in Lower-Limb Rehabilitation Robotics. <i>International Journal of Humanoid Robotics</i> , 2016 , 13, 1650005 | 1.2 | 15 |
| 49 | Joint Offloading and Charge Cost Minimization in Mobile Edge Computing. <i>IEEE Open Journal of the Communications Society</i> , 2020 , 1, 205-216 | 6.7 | 14 |
| 48 | Efficient caching strategy in content-centric networking for vehicular ad-hoc network applications. <i>IET Intelligent Transport Systems</i> , 2018 , 12, 703-711 | 2.4 | 14 |
| 47 | Mutual-Information-Based Incremental Relaying Communications for Wireless Biomedical Implant Systems. <i>Sensors</i> , 2018 , 18, | 3.8 | 14 |

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|----|--|-----|----|
| 46 | Wireless Body Area Network Mobility-Aware Task Offloading Scheme. <i>IEEE Access</i> , 2018 , 6, 61366-61376 | 3.5 | 13 |
| 45 | Hammerstein model for hysteresis characteristics of pneumatic muscle actuators. <i>International Journal of Intelligent Robotics and Applications</i> , 2019 , 3, 33-44 | 1.7 | 11 |
| 44 | Gestures recognition based on wavelet and LLE. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2013 , 36, 167-76 | 1.9 | 11 |
| 43 | An EMG-based force prediction and control approach for robot-assisted lower limb rehabilitation 2014 , | | 11 |
| 42 | Joint offloading decision and resource allocation for mobile edge computing enabled networks. <i>Computer Communications</i> , 2020 , 154, 361-369 | 5.1 | 9 |
| 41 | A method for determining customer requirement weights based on TFMF and TLR. <i>Enterprise Information Systems</i> , 2013 , 7, 569-580 | 3.5 | 9 |
| 40 | An Intelligent Computation Demand Response Framework for IIoT-MEC Interactive Networks. <i>IEEE Networking Letters</i> , 2020 , 2, 154-158 | 2.8 | 7 |
| 39 | Bio-Inspired Design and Iterative Feedback Tuning Control of a Wearable Ankle Rehabilitation Robot. <i>Journal of Computing and Information Science in Engineering</i> , 2016 , 16, | 2.4 | 7 |
| 38 | Line-laser-based visual measurement for pavement 3D rut depth in driving state. <i>Electronics Letters</i> , 2018 , 54, 1172-1174 | 1.1 | 7 |
| 37 | An efficient in-network caching decision algorithm for Internet of things. <i>International Journal of Communication Systems</i> , 2018 , 31, e3521 | 1.7 | 5 |
| 36 | . <i>IEEE Communications Letters</i> , 2018 , 22, 1426-1429 | 3.8 | 5 |
| 35 | Compliance adaptation of an intrinsically soft ankle rehabilitation robot driven by pneumatic muscles 2017 , | | 5 |
| 34 | Vertical Handover Algorithm for WBANs in Ubiquitous Healthcare with Quality of Service Guarantees. <i>Information (Switzerland)</i> , 2017 , 8, 34 | 2.6 | 5 |
| 33 | Path Control of a Rehabilitation Robot Using Virtual Tunnel and Adaptive Impedance Controller 2014 , | | 5 |
| 32 | A new IMMU-based data glove for hand motion capture with optimized sensor layout. <i>International Journal of Intelligent Robotics and Applications</i> , 2019 , 3, 19-32 | 1.7 | 4 |
| 31 | Reversible Data Hiding Based on Structural Similarity Block Selection. <i>IEEE Access</i> , 2020 , 8, 20375-20385 | 3.5 | 4 |
| 30 | Frontal EEG Temporal and Spectral Dynamics Similarity Analysis between Propofol and Desflurane Induced Anesthesia Using Hilbert-Huang Transform. <i>BioMed Research International</i> , 2018 , 2018, 4939480 ³ | | 4 |
| 29 | Rehabilitation assessment for lower limb disability based on multi-disciplinary approaches. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2014 , 37, 355-65 | 1.9 | 4 |

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| 28 | Iterative Feedback Tuning-based Model-Free Adaptive Iterative Learning Control of Pneumatic Artificial Muscle 2019 , | | 4 |
| 27 | sEMG-Based Dynamic Muscle Fatigue Classification Using SVM with Improved Whale Optimization Algorithm. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1 | 10.7 | 4 |
| 26 | A MUSIC-based method for SSVEP signal processing. <i>Australasian Physical and Engineering Sciences in Medicine</i> , 2016 , 39, 71-84 | 1.9 | 3 |
| 25 | An Optimal Motion Planning Method of 7-DOF Robotic Arm for Upper Limb Movement Assistance 2019 , | | 3 |
| 24 | A STEP-based Generic Product Modeling Architecture for collaborative injection moulding product development. <i>Human Factors and Ergonomics in Manufacturing</i> , 2010 , 20, 547-566 | 1.4 | 3 |
| 23 | Design and Hierarchical Force-Position Control of Redundant Pneumatic Muscles-Cable-Driven Ankle Rehabilitation Robot. <i>IEEE Robotics and Automation Letters</i> , 2021 , 1-1 | 4.2 | 3 |
| 22 | MISO Model Free Adaptive Control of Single Joint Rehabilitation Robot Driven by Pneumatic Artificial Muscles 2020 , | | 3 |
| 21 | Research on Channel Selection and Multi-Feature Fusion of EEG Signals for Mental Fatigue Detection. <i>Entropy</i> , 2021 , 23, | 2.8 | 3 |
| 20 | Impedance Control of the Rehabilitation Robot Based on Sliding Mode Control 2016 , | | 3 |
| 19 | Machine Learning in Robot Assisted Upper Limb Rehabilitation: A Focused Review. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 2021 , 1-1 | 3 | 3 |
| 18 | Implementing Multi-DOF Trajectory Tracking Control System for Robotic Arm Experimental Platform 2018 , | | 2 |
| 17 | Caching-Aided Task Offloading Scheme for Wireless Body Area Networks with MEC 2019 , | | 2 |
| 16 | Fuzzy PD-Type Iterative Learning Control of a Single Pneumatic Muscle Actuator. <i>Lecture Notes in Computer Science</i> , 2017 , 812-822 | 0.9 | 2 |
| 15 | Design and Control of a Reconfigurable Upper Limb Rehabilitation Exoskeleton With Soft Modular Joints. <i>IEEE Access</i> , 2021 , 9, 166815-166824 | 3.5 | 2 |
| 14 | Online detection of class-imbalanced error-related potentials evoked by motor imagery. <i>Journal of Neural Engineering</i> , 2021 , 18, | 5 | 2 |
| 13 | Research on rehabilitation assessment methods based on human gait and sEMG. <i>Cogent Engineering</i> , 2016 , 3, 1220113 | 1.5 | 2 |
| 12 | An Attention-Based CNN-LSTM Model with Limb Synergy for Joint Angles Prediction 2021 , | | 2 |
| 11 | Multi-radio channel rendezvous in cognitive radio networks. <i>IET Communications</i> , 2019 , 13, 1433-1442 | 1.3 | 1 |

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|----|---|-----|-----|
| 10 | A selective authentication watermarking algorithm for 2D CAD engineering drawings based on entity localization 2014 , | | 1 |
| 9 | Joint Optimization of USVs Communication and Computation Resource in IRS-aided Wireless Inland Ship MEC Networks. <i>IEEE Transactions on Green Communications and Networking</i> , 2021 , 1-1 | 4 | 1 |
| 8 | Path Planning and Impedance Control of a Soft Modular Exoskeleton for Coordinated Upper Limb Rehabilitation. <i>Frontiers in Neurobotics</i> , 2021 , 15, 745531 | 3-4 | 1 |
| 7 | A New Heuristic Scheduling Strategy LBMM in Cloud Computing 2016 , | | 1 |
| 6 | Coupling Disturbance Compensated MIMO Control of Parallel Ankle Rehabilitation Robot Actuated by Pneumatic Muscles 2019 , | | 1 |
| 5 | Brain-robot Shared Control Based on Motor Imagery and Improved Bayes Filter* 2019 , | | 1 |
| 4 | Design and Modelling of a Compliant Ankle Rehabilitation Robot Redundantly Driven by Pneumatic Muscles 2019 , | | 1 |
| 3 | Neural Network Adaptive Control of Hand Rehabilitation Robot Driven by Flexible Pneumatic Muscles 2021 , | | 1 |
| 2 | sEMG-Based Motion Recognition 2018 , 67-104 | | 1 |
| 1 | Multiple Action Movement Control Scheme for Assistive Robot Based on Binary Motor Imagery EEG. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 760-768 | | 0.2 |